

### Abstract of the Disclosure

A thin-walled honeycomb structure includes: a circumferential wall, numerous partition walls disposed inside the circumferential wall, and numerous cell passages defined by the partition walls. A  
5 circumferential portion of the honeycomb structure is reinforced wholly or in a part within a certain distance from an extremity surface of the honeycomb structure by a reinforcing material that dissipates or evaporates at a high temperature, and a method for  
10 producing the same.